ORDER NO. VSD9403M247
D4

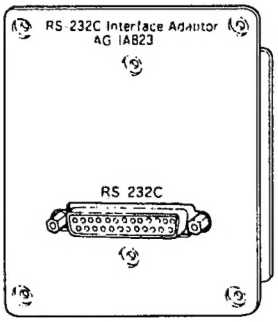
Service Manual

Operating Instructions
Schematic Diagram
Circuit Board Diagram
Exploded View & Replacement Parts List

Panasonic

RS-232C Serial Interface Adaptor

AG-IA823P



SPECIFICATIONS

ITEM	SPECIFICATION	
Power	Source	4.75V to 5.25V
	Consumption	MAX. 0.7W
Operating Condition	Temperature	41°F to 104°F (5°C to 40°C)
	Humidity	35% to 80%
Dimensions	3-1/4" (W) × 3-15/16" (H) × 7/8" (D) 82mm(W) × 100mm(H) × 21mm(D)	
Weight	Approx. 0.120kg (Approx. 4.3oz.)	

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advice non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service manual by anyone else could result in serious injury or

INTRODUCTION

This Service Manual contains all the technical information which will allow service personnel to understand and service the Panasonic RS-232C Serial Interface Adaptor model AG-IA823P.

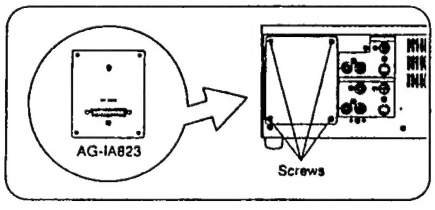
CONTENTS

OPERATING INSTRUCTIONS

By installing this interface adaptor in an AG-MD830 VTR, the VTR can be controlled by a personal computer.

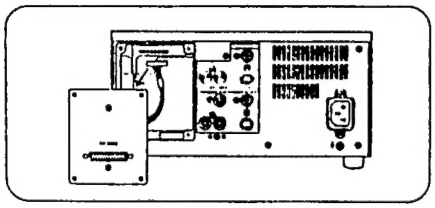
Installation

Remove the plate installed on the VTR.
■ Remove the four screws indicated in the figure.
Install the interface adaptor using the removed screws.



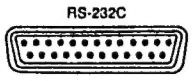
Precaution

When installing the adaptor, be sure to connect the VTR cable into the interface adaptor, as shown in the figure.



Connector signals (25P)

■ RS-232C Input/Output Connector
Connect the input from a personal computer (or RS-232C output from another VTR) to the RS-232C input connector. Use RS-232C straight (normal) cable.



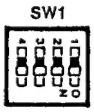
Pin No.	Signal name	Pin No.	Signal name
1	GND	6	*1
2	TXD	7	GND
3	RXD	8–19	—
4	Shorted to 5	20	—
5	Shorted to 4	21–25	—

*1: Positive voltage output after communication enable status.

Note:
The screws installed in this product are screws with inch threads. However, please bear in mind that the screws for the D-SUB connectors provided in the same package are screws with metric threads (M2.6 type).

Description of DIP switches

These are used to set the communication mode and baud rate.



■ Communication mode

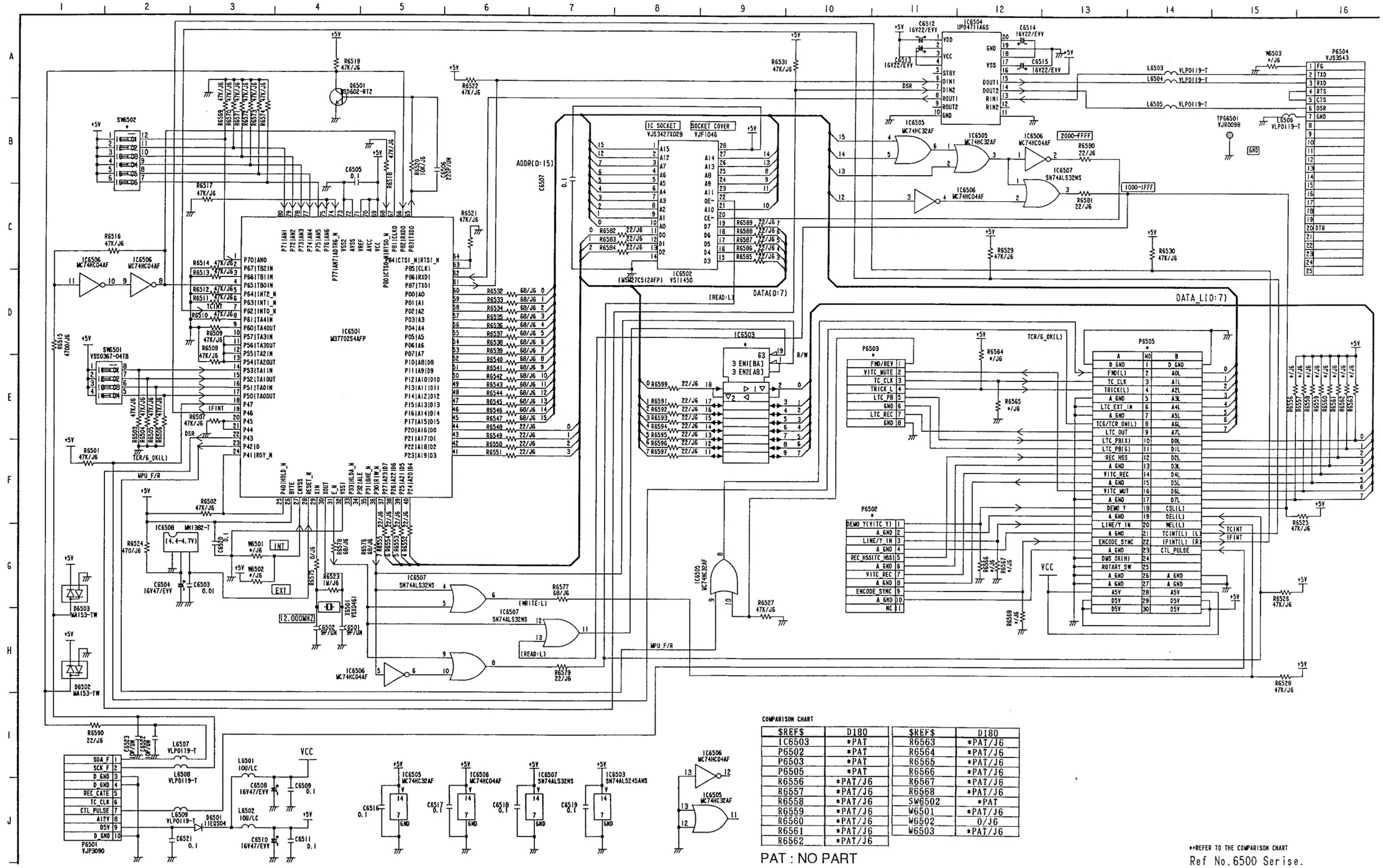
	NORMAL	AG-IA232TC mode
SW1	OFF	ON

■ Baud rate

	NORMAL	Forced 19200
SW3	OFF	ON

Forced 19200: The baud rate is forcibly set to 19200 bps regardless of the menu setting.

SCHEMATIC DIAGRAM



COMPARISON CHART

REF	D180
IC6503	*PAT
P6502	*PAT
P6503	*PAT
P6505	*PAT
R6556	*PAT/J6
R6557	*PAT/J6
R6558	*PAT/J6
R6559	*PAT/J6
R6560	*PAT/J6
R6561	*PAT/J6
R6562	*PAT/J6

REF	D180
R6563	*PAT/J6
R6564	*PAT/J6
R6565	*PAT/J6
R6566	*PAT/J6
R6567	*PAT/J6
R6568	*PAT/J6
SW6502	*PAT
W6501	*PAT/J6
W6502	0/J6
W6503	*PAT/J6

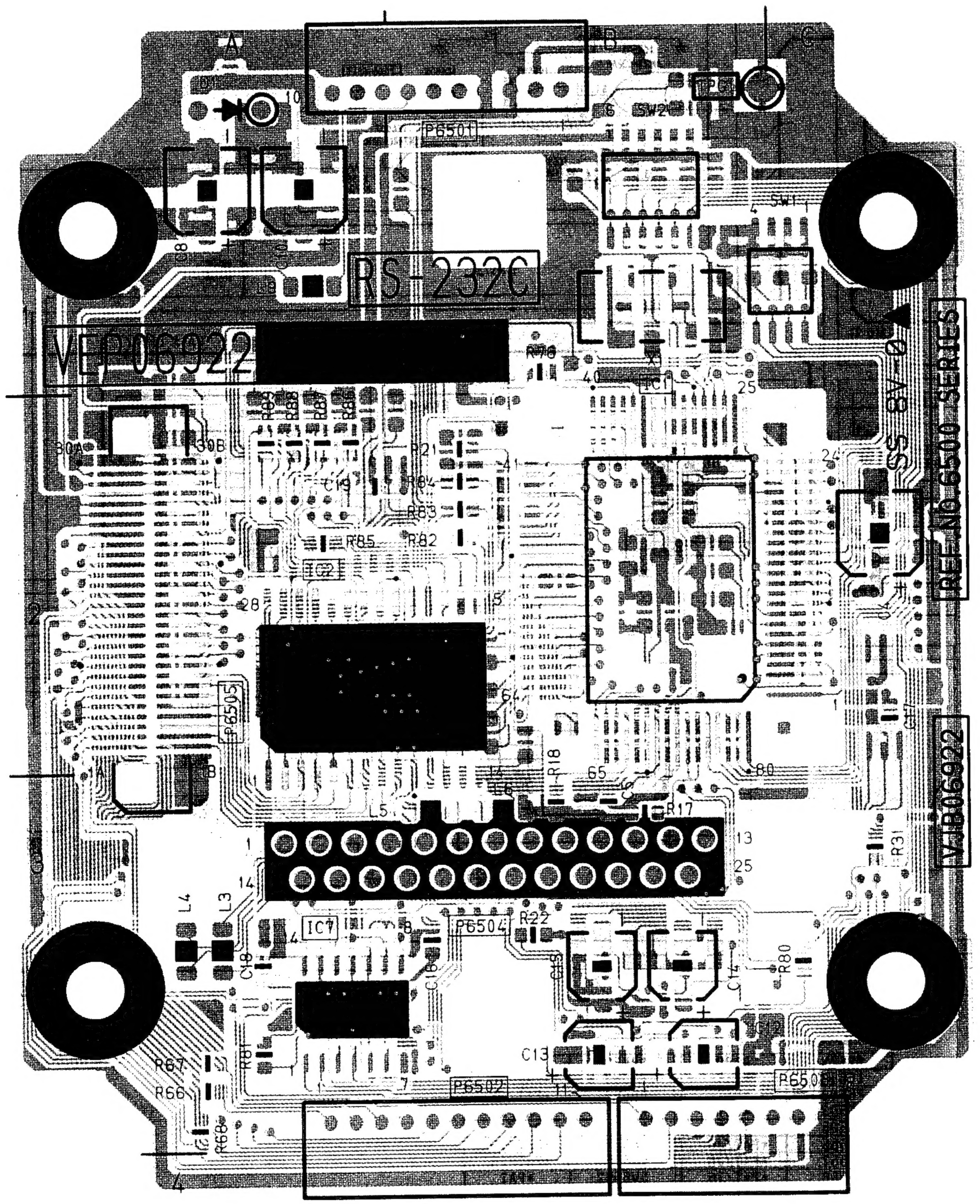
PAT : NO PART

*:REFER TO THE COMPARISON CHART

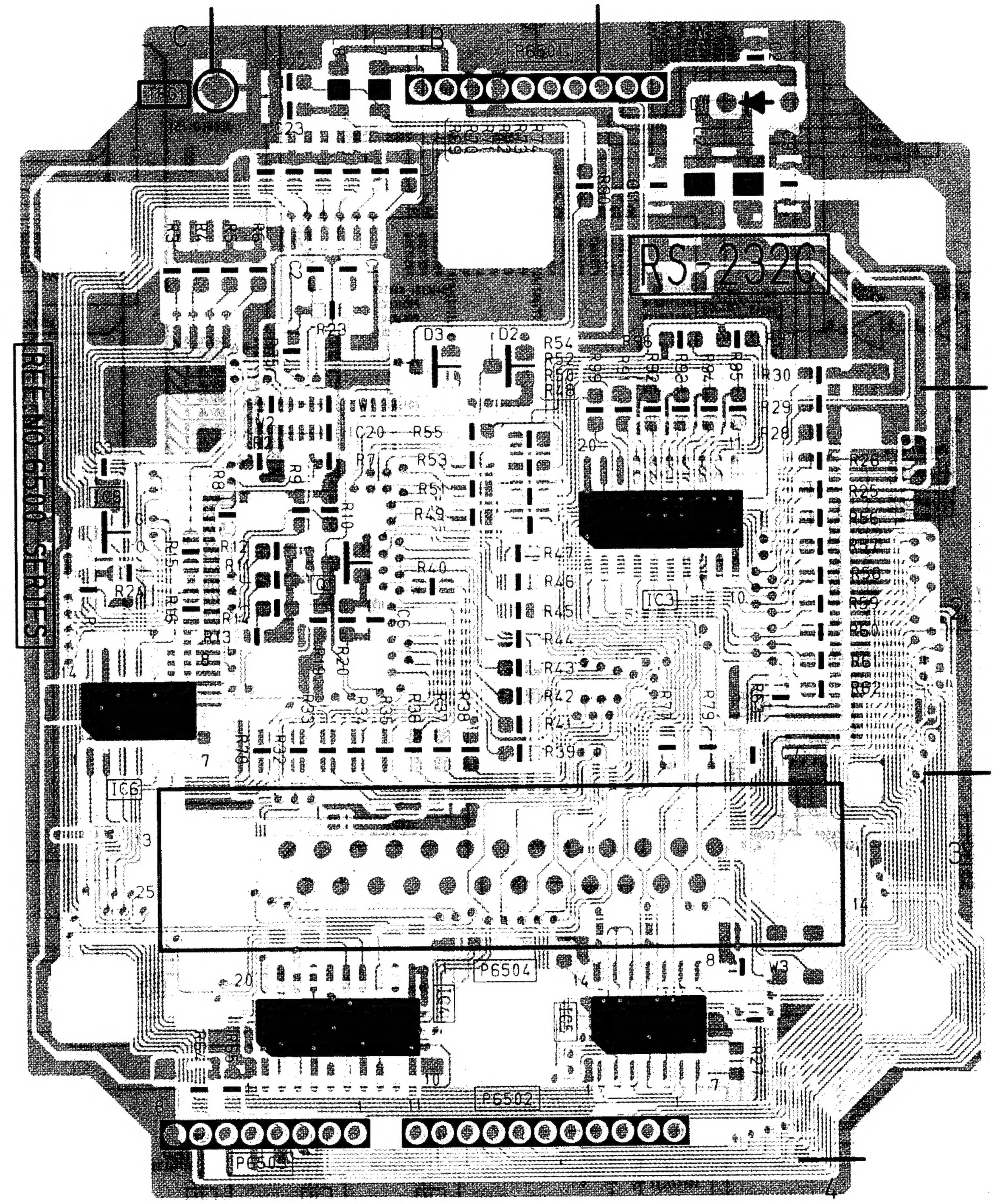
Ref No.6500 Serise.

CIRCUIT BOARD DIAGRAM(VEP06922A)

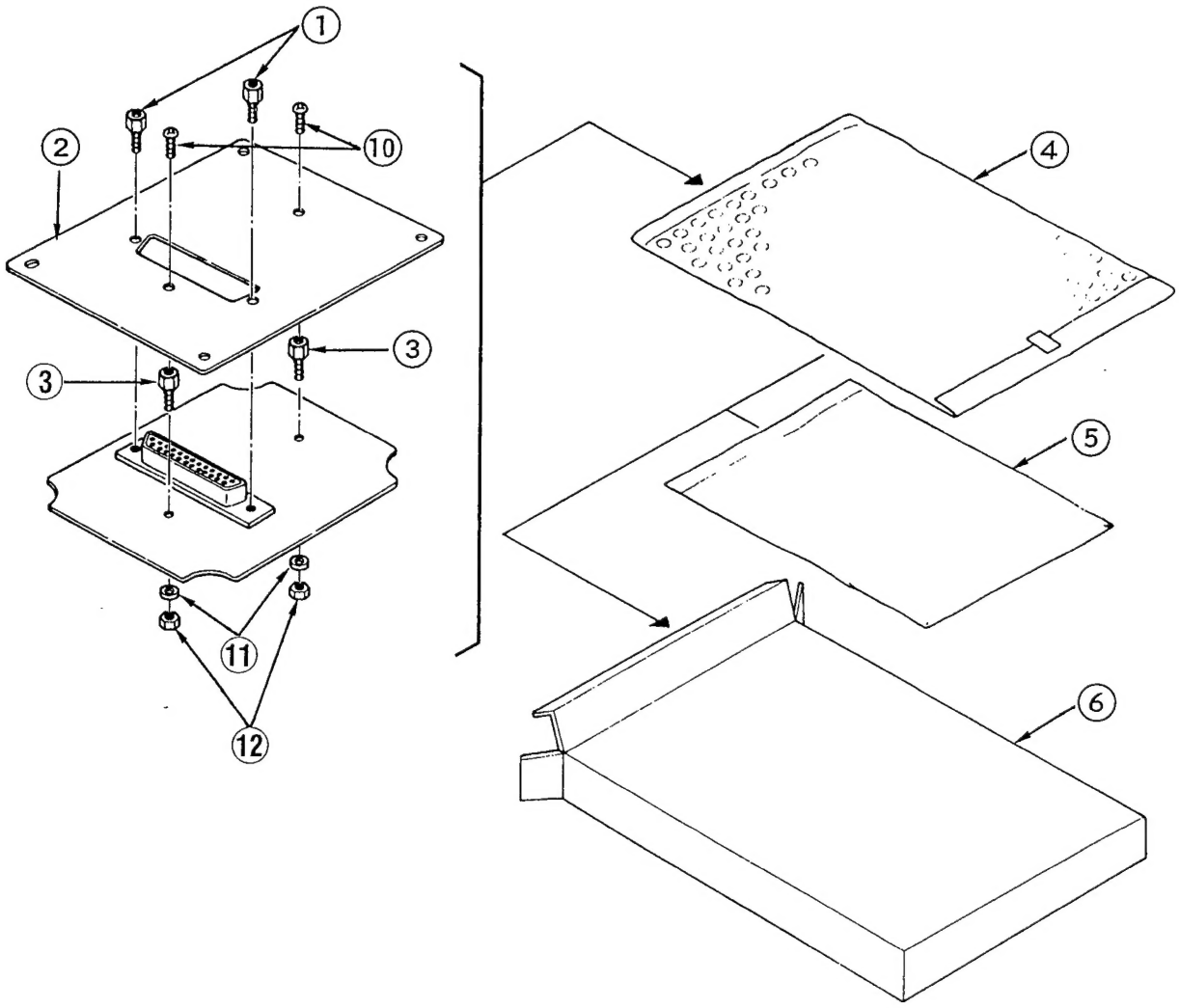
(COMPONENT SIDE)



(FOIL SIDE)



EXPLODED VIEW



MECHANICAL REPLACEMENT PARTS LIST

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1		VHN0198	BOSS	2	
2		VMP4249	PLATE	1	
3		VHN0199	BOSS	2	
4		VPF0462	CUSHION BAG	1	
5		VQT5752	OPERATING INSTRUCTION	1	
6		VPG4770	PACKING CASE	1	
10		XSB26+4FZ	SCREW	2	
11		XWA26B	WASHER	2	
12		XNG26C	NUT	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP06922A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		RS-232C		
	VEP06922A	P.C.BOARD W/COMPONENT		
		RS-232C		
C6501,02	ECUM1H090DCN	C.CAPACITOR CH 50V 90P	2	
C6503	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6504	ECEV1CV470S	E.CAPACITOR 16V 47U	1	
C6505	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6506	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C6507	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6508	ECEV1CV470S	E.CAPACITOR 16V 47U	1	
C6509	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6510	ECEV1CV470S	E.CAPACITOR 16V 47U	1	
C6511	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6512-15	ECEV1CV220S	E.CAPACITOR 16V 22U	4	
C6516-21	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	6	
C6522,23	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
D6501	11EQS04	DIODE	1	<R>
D6502,03	MA153	DIODE	1	<R>
IC6501	M37702S4AFP	IC	1	<R>
IC6502	VSI1450	IC	1	<R>
IC6504	UPD4711AGS	IC	1	<R>
IC6505	MC74HC32AF	IC	1	<R>
IC6506	MC74HC04AF	IC	1	<R>
IC6507	SN74ALS32NS	IC	1	<R>
IC6508	MN1382-T	IC	1	<R>
IC6502S	VJS3427X028	IC	1	<R>
L6501,02	VLQ0319K100	COIL 10UH	1	
L6503-09	VLP0119	COIL	7	
P6501	VJP3090	CONNECTOR (MALE)	1	
P6504	VJS3543	CONNECTOR (FEMALE)	1	
Q6501	MSD602-R	TRANSISTOR	1	<R>
R6501-19	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	19	
R6520	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6521,22	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6523	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R6524	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R6525-31	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6532-47	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	16	
R6548-55	ERJ6GEYJ220	M.RESISTOR CH 1/10W 22	8	
R6569-74	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	6	
R6575	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6576-78	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	3	
R6579-99	ERJ6GEYJ220	M.RESISTOR CH 1/10W 22	21	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
SW6501	VSS0367-04TB	SWITCH	1	<R>
W6502	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
X6501	VSX0461	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
	VJF1046	IC SOCKET COVER	1	

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